

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P884942

Luminaire Tested: **NAV-SB6A-730-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884942  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-730-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

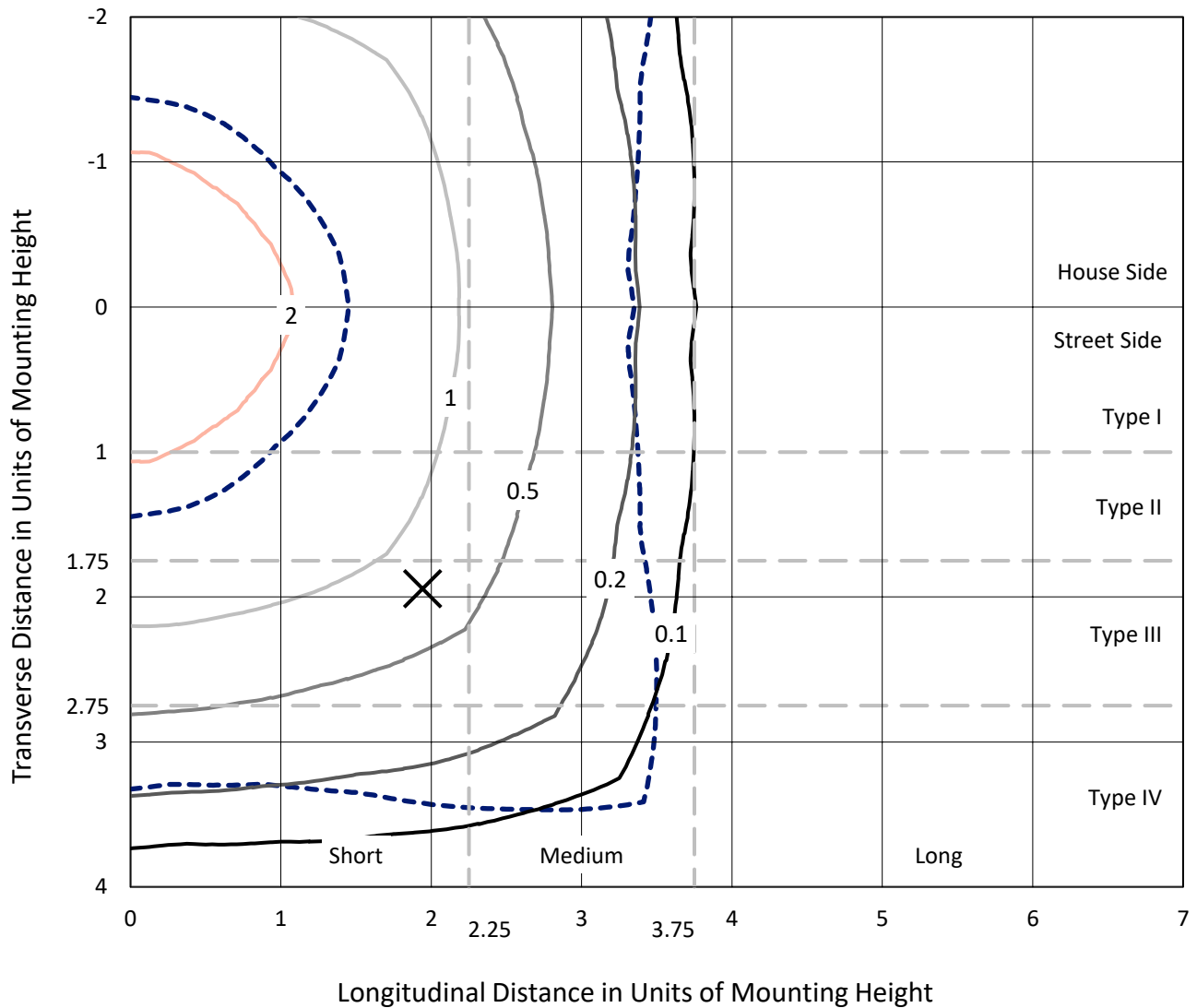
Lumens per Lamp: N/A  
Luminaire Lumens: 27110 lumens  
Efficiency: N/A  
Efficacy: 158.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

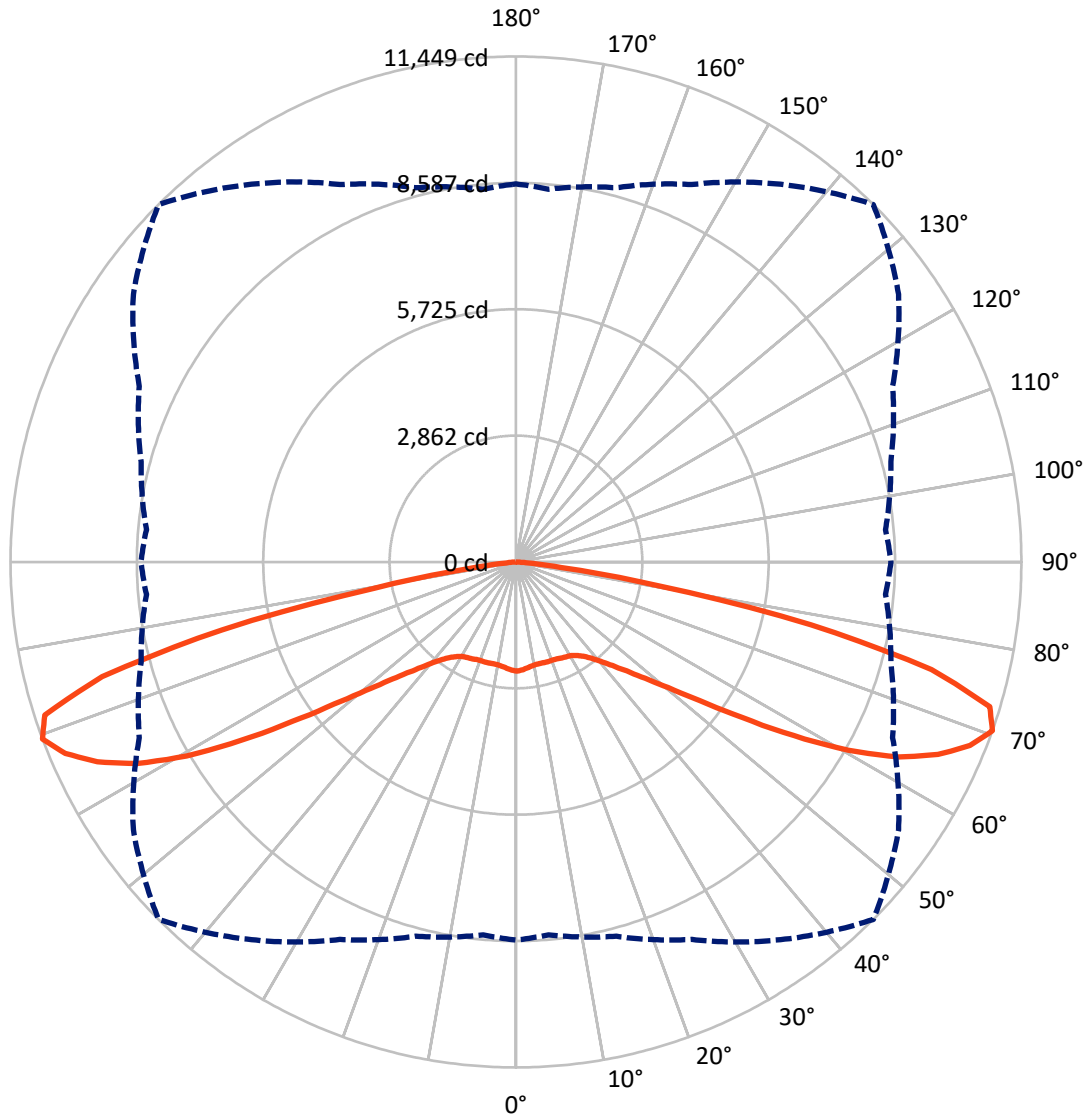
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13555.0	0.0	13555.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13555.0	0.0	13555.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27110.0	0.0	27110.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.0	0.8
10°-20°	675.5	2.5
20°-30°	1124.1	4.1
30°-40°	1699.9	6.3
40°-50°	2824.9	10.4
50°-60°	5330.5	19.7
60°-70°	9000.8	33.2
70°-80°	5914.4	21.8
80°-90°	309.9	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	27110.0	100.0
0°-180°	27110.0	100.0



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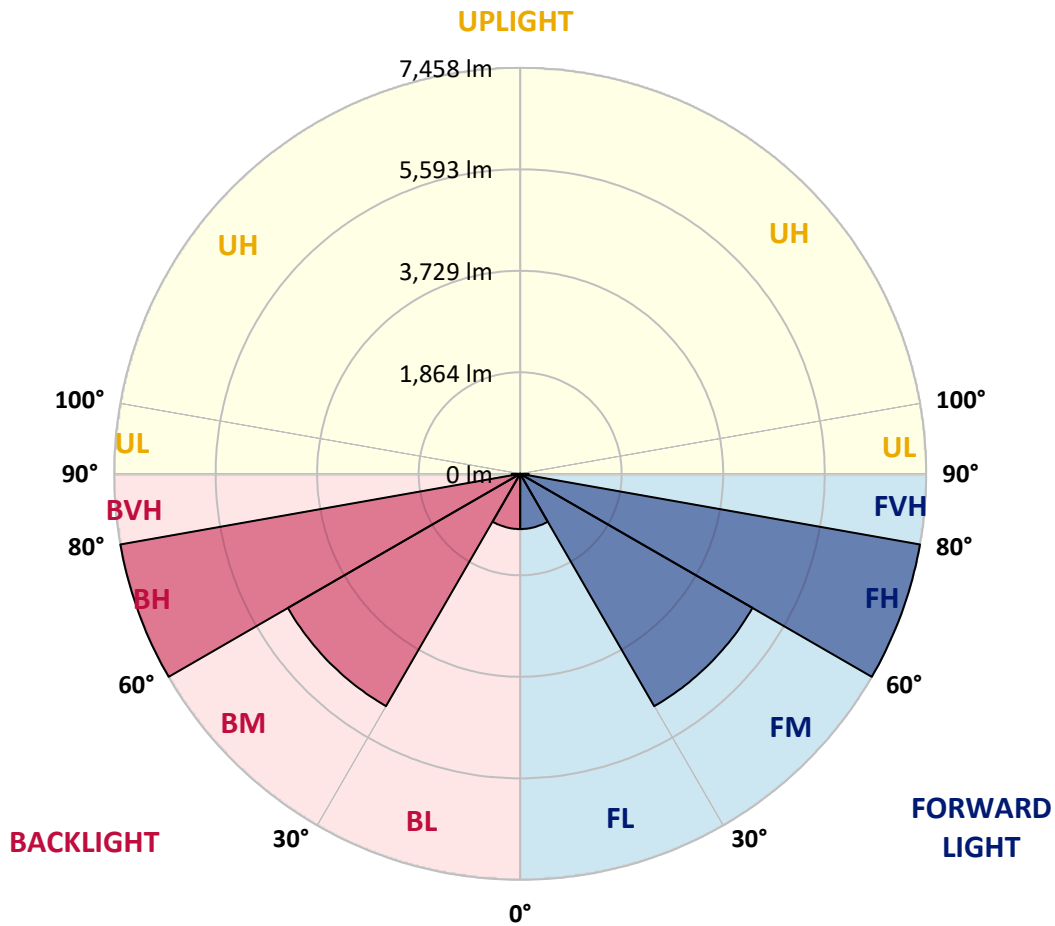
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.8	3.7			
FM (30°-60°)	4927.7	18.2			
FH (60°-80°)	7457.6	27.5			G3/7500
FVH (80°-90°)	154.9	0.6			G2/225
BL (0°-30°)	1014.8	3.7	B3/2500		
BM (30°-60°)	4927.7	18.2	B3/5000		
BH (60°-80°)	7457.6	27.5	B5		G3/7500
BVH (80°-90°)	154.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0	2473.0
2.5°	2457.5	2464.5	2461.7	2456.1	2456.1	2451.8	2456.1	2458.9	2463.1	2465.9	2464.5
5°	2425.1	2430.7	2429.3	2425.1	2426.5	2422.3	2425.1	2429.3	2432.1	2433.5	2433.5
7.5°	2396.9	2402.5	2399.7	2392.7	2392.7	2388.4	2389.8	2394.1	2398.3	2399.7	2399.7
10°	2389.8	2395.5	2387.0	2375.7	2371.5	2365.9	2367.3	2371.5	2380.0	2384.2	2384.2
12.5°	2392.7	2396.9	2388.4	2371.5	2367.3	2361.7	2361.7	2365.9	2377.2	2382.8	2384.2
15°	2401.1	2405.3	2392.7	2374.3	2370.1	2365.9	2364.5	2370.1	2382.8	2392.7	2394.1
17.5°	2416.6	2420.8	2401.1	2375.7	2370.1	2371.5	2370.1	2374.3	2394.1	2412.4	2412.4
20°	2430.7	2433.5	2406.7	2375.7	2370.1	2371.5	2370.1	2378.6	2403.9	2429.3	2430.7
22.5°	2434.9	2437.8	2412.4	2385.6	2381.4	2382.8	2381.4	2389.8	2413.8	2439.2	2439.2
25°	2436.3	2440.6	2420.8	2399.7	2406.7	2409.6	2406.7	2408.2	2426.5	2449.0	2447.6
27.5°	2457.5	2463.1	2444.8	2426.5	2430.7	2429.3	2433.5	2437.8	2451.8	2474.4	2468.8
30°	2501.2	2505.4	2489.9	2471.6	2468.8	2458.9	2471.6	2485.7	2501.2	2520.9	2516.7
32.5°	2573.0	2581.5	2561.8	2542.0	2529.3	2523.7	2533.6	2557.5	2578.7	2599.8	2591.3
35°	2692.8	2698.4	2680.1	2643.5	2620.9	2620.9	2629.4	2660.4	2694.2	2721.0	2711.1
37.5°	2861.9	2868.9	2836.5	2792.8	2759.0	2759.0	2770.3	2802.7	2853.4	2891.5	2877.4
40°	3067.6	3077.5	3036.6	2991.5	2959.1	2953.5	2967.6	3004.2	3052.1	3100.0	3084.5
42.5°	3315.6	3326.9	3273.3	3233.9	3208.5	3208.5	3215.6	3249.4	3293.1	3352.3	3348.0
45°	3632.7	3652.4	3579.1	3539.7	3515.7	3521.4	3525.6	3555.2	3594.6	3662.3	3659.4
47.5°	4010.3	4030.0	3952.5	3911.7	3907.4	3934.2	3917.3	3938.4	3959.6	4037.1	4014.5
50°	4438.7	4472.5	4419.0	4416.1	4424.6	4473.9	4434.5	4445.7	4421.8	4471.1	4441.5
52.5°	4962.9	5012.2	5002.3	5019.2	5113.6	5215.1	5124.9	5085.5	4995.3	5010.8	4958.6
55°	5598.4	5673.1	5687.1	5788.6	6002.8	6209.9	6018.3	5859.1	5667.4	5632.2	5577.2
57.5°	6321.2	6380.4	6448.1	6655.2	7055.4	7423.2	7055.4	6703.1	6401.6	6329.7	6279.0
60°	7099.1	7172.3	7237.2	7542.9	8137.6	8654.7	8126.3	7566.9	7168.1	7070.9	6986.3
62.5°	7934.7	8029.1	8074.2	8413.8	9107.0	9724.2	9116.9	8439.1	7996.7	7892.4	7807.8
65°	8736.4	8813.9	8864.7	9226.8	9889.1	10507.7	9934.2	9266.3	8811.1	8674.4	8606.8
67.5°	9109.9	9152.1	9276.1	9686.2	10385.1	11091.1	10503.5	9729.9	9221.2	8981.6	8984.4
70°	8563.1	8477.2	8775.9	9432.5	10444.3	11449.0	10579.6	9412.8	8790.0	8401.1	8494.1
72.5°	6617.2	6469.2	6987.7	8110.8	9767.9	11220.7	9835.5	8174.2	7310.4	6521.3	6717.2
75°	3600.3	3432.6	4148.4	5568.8	7789.5	9725.6	7968.5	5728.0	4619.0	3573.5	3806.0
77.5°	1016.0	952.6	1530.3	2694.2	4685.3	6828.5	4865.6	2753.4	1814.9	1076.6	1196.3
80°	311.4	301.5	408.6	811.6	1989.7	3270.5	1912.2	821.5	520.0	328.3	346.6
82.5°	184.6	169.1	202.9	295.9	507.3	1027.2	493.2	308.6	248.0	166.3	180.4
85°	105.7	98.6	119.8	143.7	170.5	218.4	142.3	146.5	132.5	88.8	93.0
87.5°	43.7	39.5	46.5	45.1	39.5	50.7	38.0	45.1	53.5	35.2	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)